



Attorney's Docket 7040-51

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Herzel

Examiner:

Ser. No.: 09/980,982

Art Group:

Title: VOLTAGE-CONTROLLED OSCILLATOR WITH LC RESONANT CIRCUIT

Filed: 3 December 2001

Date: 4 February 2001

**SUPPLEMENTAL PRELIMINARY AMENDMENT**

This Supplemental Preliminary Amendment is filed to correct a typographical error noted in the application as filed.

Amendments to the Disclosure

Please make the following changes to the specification:

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[0026] Closure of the switching means  $S_x$  therefore causes halving of the inductance which is crucial in terms of the oscillator frequency. The quality of the pairs of coils  $L_1$  and  $L_2$  is equal to the quality of the individual coil. If it is considered that the following approximately applies for the oscillator frequency:

$$f_0 = 1 / \sqrt{L},$$

the following relationship is found for the lower limit frequency  $f_{0,\min}$  and for the upper limit frequency  $f_{0,\max}$  for the frequency tuning range:

$$\underline{f_{0,\max} = \sqrt{2} \cdot f_{0,\min} \quad [f_{0,\max} = \sqrt{2 \cdot f_{0,\min}}]}$$

[0027] The following similarly applies for the general case of coils which are not necessarily the same:

$$\underline{f_{0,\max} = \sqrt{(1 + L1/L2)} \cdot f_{0,\min} \quad [f_{0,\max} = \sqrt{(1 + L1/L2)} \cdot f_{0,\min}]}$$